Math 2   Name_____

Unit 5.6 Complex Fractions with Rational Expressions Practice   Period____

Simplify each expression.

1) $\dfrac{\dfrac{x}{3}}{\dfrac{9}{4}}$

2) $\dfrac{\dfrac{1}{u}}{\dfrac{u}{4}}$

3) $\dfrac{\dfrac{5}{y^2}}{\dfrac{5}{yx}}$

4) $\dfrac{\dfrac{y^2}{4}}{\dfrac{y}{x}}$

5) $\dfrac{u^2}{\dfrac{1}{4}+\dfrac{u^2}{4}}$

6) $\dfrac{\dfrac{3}{x^2}}{\dfrac{9}{x}+\dfrac{3}{x}}$

7) $\dfrac{\dfrac{u^2}{3}}{\dfrac{u}{5}+\dfrac{9}{5}}$

8) $\dfrac{\dfrac{5b}{a^2}}{\dfrac{25}{a^2}+\dfrac{a}{5}}$

9) $\dfrac{\dfrac{a}{2}-\dfrac{b^2}{a^2}}{\dfrac{b}{a^2}}$

10) $\dfrac{\dfrac{y}{x}+\dfrac{y^2}{4}}{\dfrac{y^2}{x}}$

11) $\dfrac{\dfrac{x^2}{3} + \dfrac{5}{4}}{\dfrac{3}{16} - \dfrac{25}{9}}$

12) $\dfrac{\dfrac{u^2}{16} + \dfrac{4}{3}}{\dfrac{3}{u} - \dfrac{1}{2}}$

13) $\dfrac{\dfrac{5}{3} - \dfrac{4}{a}}{\dfrac{25}{4} + \dfrac{1}{3}}$

14) $\dfrac{\dfrac{v}{3} - \dfrac{5}{u}}{\dfrac{u^2}{v^2} - \dfrac{v}{u}}$

15) $\dfrac{\dfrac{x}{5} + \dfrac{1}{y}}{\dfrac{y}{x^2} - \dfrac{1}{y}}$

16) $\dfrac{\dfrac{y^2}{2x} - \dfrac{1}{2}}{\dfrac{2y}{x^2} - \dfrac{2}{x}}$

17) $\dfrac{\dfrac{y-2}{x+5} + \dfrac{9}{x+5}}{\dfrac{y-2}{x+5}}$

18) $\dfrac{x+4}{\dfrac{y-1}{x+4} + \dfrac{x+4}{3}}$

19) $\dfrac{y-5}{\dfrac{5y-25}{x-3} + \dfrac{y-5}{5}}$

20) $\dfrac{\dfrac{y+3}{4} - \dfrac{4}{x+2}}{\dfrac{4}{x+2} + \dfrac{y+3}{x+2}}$

21) $\dfrac{\dfrac{b+5}{a+1} - \dfrac{25}{b+5}}{\dfrac{25}{a+1} - \dfrac{4}{a+1}}$

22) $\dfrac{\dfrac{x+1}{25} - \dfrac{x+1}{y+3}}{\dfrac{x+1}{5y+15} + \dfrac{x+1}{y+3}}$